

IN THE SPECIFICATION:

Please amend the paragraph beginning at page 2, line 1, as follows.

The direct link single mode connection, however, is not adequate for many applications, since it imposes undesired limitations on the end user experience and the richness of the content that may be delivered. Voice-based applications for mobile devices offer ease of input, but their inherent ephemeral quality limits their use as an output medium. A need therefore exists for a method and apparatus for delivery of converged services with audio, data or video content (or a combination thereof). A further need therefore exists for a method and apparatus for securely delivering such converged services to wireless device users in a wireless environment

Please amend the paragraph beginning at page 3, line 24, as follows

The present invention provides a method and apparatus for the secure delivery of converged services to users of wireless devices in a wireless environment. FIG. 1 illustrates a wireless multimedia communication system 100 in which the present invention can operate. As shown in FIG. 1, the exemplary wireless multimedia communication system 100 includes one or more wireless user devices 110-1 through 110-N that each communicate with an application server 170 over one or more wireless links. The application server 170 delivers one or more wireless applications to the wireless devices 110. While the connection to each wireless device 110 includes a wireless connection, the wireless multimedia communication system ~~network~~-environment 100 may include additional wired or wireless portions in the end-to-end path between a given wireless device 110 and the application server 170

Please amend the paragraph beginning at page 4, line 4, as follows.

According to one aspect of the invention, the wireless multimedia communication system 100 includes an application layer broker 200, discussed below in conjunction with FIG. 2, that provides an indirect coupling between the enterprise application server 170, which is protected by the enterprise security firewall 160, and the wireless devices 110-1 through 110-N (clients), which typically reside outside the firewall 160. The application layer broker 200 links the wireless multimedia communication system ~~environment~~ 100 to the enterprise application server 170 through an event triggered content delivery mechanism without providing a direct link between the

client wireless device 110 and the enterprise application server 170. The application layer broker 200 is located between the wireless devices 110 (client) and the server 170. This architecture differs from traditional client-server architectures in several ways. First, the disclosed architecture decouples the direct connection between the client and the server. In addition, the disclosed
5 architecture separates the service logic from the service delivery through the application layer broker 200, and provides a secure broker infrastructure between the end user devices and the enterprise level applications that contain the service logic.

Please amend the paragraph beginning at page 5, line 14, as follows.

10 According to another aspect of the invention, discussed further below in conjunction with FIG. 2, the wireless devices 110 and the application server 170 communicate with each other through loosely coupled interfaces based on an asynchronous exchange of messages. In this manner, the present invention provides a loosely-coupled adaptable brokerage-based software (LABS) architectural framework. In addition, the wireless multimedia communication system 100
15 generates, transmits, and processes content in an asynchronous manner. As discussed further below in conjunction with FIG. 3, communications between the wireless devices 110 and the application layer broker 200, as well as the communication between the application layer broker 200 and the application server 170 are based on standard protocols. Among other benefits, standardized protocols, such as the eXtensible Markup Language (XML), Hyper Text Transport Protocol
20 (HTTP), or Hyper Text Transport Protocol Secure (HTTPS), ~~providing~~ provide improved portability and interoperability.

Please amend the paragraphs beginning at page 9, line 8, as follows.

25 One security aspect of the invention provides access to the content by only the intended user and the authorized device 110. As shown in FIG. 3, content is delivered in the exemplary embodiment to the wireless device 110 through a two-step procedure. First, a service indication (SI) message is sent to the device 110, using the Over the Air (OTA) Service Indication (SI) protocol. The service indication mechanism in the present invention consists of a short text message and a URI link that is ready to be accessed by the device 110 on the acceptance of the
30 service indication to retrieve the service content. Then the user can access (i.e. pull) the content by

following the received URI. This URI link includes a unique message identifier and a timestamp, which will be verified to prevent unauthorized access. Moreover, the information about the URI link, the physical location of the service content, and the procedure to establish the content pulling connection between the wireless device 110 ~~400~~ and application layer broker 200 are all encoded underneath the SI protocol, which are invisible to the third party or even the user. It makes the present invention safe to use in a crowded area with people standing by, such as sitting in a bus or an airplane. This has been a security concern with prior implementations, such as service delivery using SMS (short message service) where sensitive service content information or the URL link may be displayed explicitly on the screen, without the encoding mechanism embodied in the present invention